

WHAT IS CLAIMED IS:

1. Rotary feed-through for the selective supply of cooling lubricant or air to a rotating machine part, which contains a hollow shaft, which is supported so that it can rotate in a first housing part, with a first sealing surface, and a sealing bushing, which is arranged rotationally fixed within a second housing part and which is coaxial with the hollow shaft, with a second sealing surface for contact to the first sealing surface, characterized in that the second housing part contains a first lateral supply channel, which can be attached to a coolant supply line or a compressed air supply line, for the supply of cooling lubricant or compressed air via at least one radial opening of the sealing bushing and a second supply channel, which is charged during the supply of cooling lubricant, for the supply of cooling lubricant to a pressure piston closing the rear end of the sealing bushing to increase the contact pressure of the sealing surfaces.

2. Rotary feed-through according to Claim 1, characterized in that force is applied to the sealing bushing by a compression spring supported on the second housing part in the direction of the hollow shaft, such that the sealing surface of the sealing bushing is constantly pressed against the sealing surface of the hollow shaft.

3. Rotary feed-through according to Claim 1, characterized in that the first sealing surface is provided at the rear end of a sealing sleeve inserted into the hollow shaft.

4. Rotary feed-through according to Claim 1, characterized in that the pressure piston is inserted into the rear end of the sealing bushing.

5. Rotary feed-through according to Claim 1, characterized in that the pressure piston has a front end peg projecting into the rear end of the sealing bushing in a sealed manner.

6. Rotary feed-through according to Claim 1, characterized in that the pressure piston is supported by a compression spring at a rear end cap mounted in the second housing part.

7. Rotary feed-through according to Claim 1, characterized in that in the region of the interface between the sealing surfaces of the hollow shaft and the sealing bushing within the first housing part there is a collection space and connected to this collection space there is an annular space with a discharge line.

8. Rotary feed-through according to Claim 1, characterized in that two supply channels are connected to a supply device for the compressed air and cooling lubricant supply.

9. Rotary feed-through according to Claim 8, characterized in that the supply device contains a compressed air supply line, which leads from a compressed air source via a first on-off valve and a first check valve to a line attached to the first supply channel.

10. Rotary feed-through according to Claim 9, characterized in that the supply device contains a cooling lubricant supply line, which opens from a cooling lubricant source via a second on-off valve to the second supply channel and over a bypass with a second check valve into the line downstream of the first check valve.

11. Rotary feed-through according to Claim 9, characterized in that the first check valve is integrated into the second housing part.

12. Rotary feed-through according to Claim 10, characterized in that the second check valve is integrated into the second housing part.